# Navajo Abandoned Uranium Mine

# Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Mine Name: Jim Hatattly Mine IDs: 801, 802

Navajo AUM Central Region

Prepared by:

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Contract: W91238-06-F-0083

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## Part I **Site Identification, Location and Status** Site Names and ID numbers as applicable Mine ID: 801; 802 801: C5 Map ID: 802: C6 **CERCLIS:** NNN000909199 Navajo Abandoned Mine Land Reclamation Program: None Local name / Aliases: None Chapter and local area: Chilchinbito County: Apache **State:** Arizona **801:** 36.465486781 N / -109.9264161 W Lat/Long: **802:** 36.4688875928 N / -109.92247129 W **Nearby road and highway:** Indian Route 59 Local Post Office: Rough Rock, AZ Surface Land Status: check one or more and provide ownership and contact information below **Tribal Trust Land Public lands Private Tribal Fee Land Bureau of Land Mgmt** Allotment State Fee land **Subsurface Mineral Rights:**

No information on subsurface mineral rights ownership was found in the EPA/AUM Database.

#### **Claim and operator information:**

The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Jim Hatattly in 1952, C.A. Wheeler and A.H. Green from 1952 to 1954, and Howard L. Stanley in 1956. No additional historical ownership / lease information was identified in the EPA / AUM database.

#### Part II Summary of Radiological Readings

**Mine ID: 801** 

**Highest gamma radiation measurement:** 95,857 counts per minute (cpm)

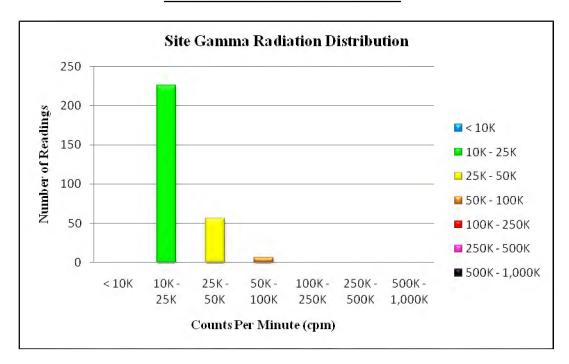
**Background Average:** 9,211 cpm **Two Times Background:** 18,422 cpm

### Describe any other radiological measurements:

A total of 288 gamma radiation measurements were collected from the mine site, ranging from 11,145 cpm to 95,857 cpm. Measurements were collected throughout the mine site, but due to a corrupted file only 288 measurements were recorded. The measurements are represented in Figures 1 and 2.

#### **Distribution Chart and Statistics:**

<b>Site Gamma Radiation Statistics</b>		
Number of Readings	288	
Minimum (cpm)	11,145	
Maximum (cpm)	95,857	
Mean (cpm)	20,655	
Median (cpm)	17,267	
Standard Deviation	10,823	



#### **Mine ID: 802**

**Highest gamma radiation measurement:** 16,066 counts per minute (cpm)

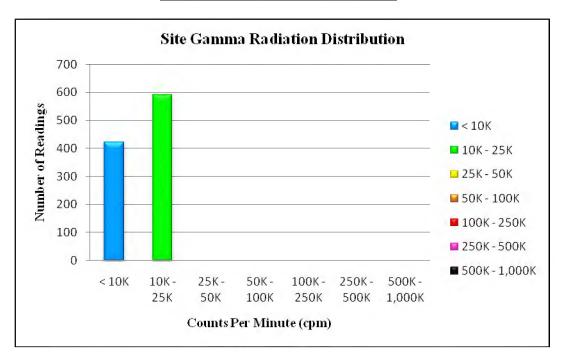
**Background Average:** 8,502 cpm **Two Times Background:** 17,003 cpm

#### Describe any other radiological measurements:

A total of 1,013 gamma radiation measurements were collected from the mine site, ranging from 6,726 cpm to 16,066 cpm. The majority of the site was inaccessible due to steep grades. The measurements are represented in Figures 1 and 2.

#### **Distribution Chart and Statistics:**

Site Gamma Radiation S	Statistics
Number of Readings	1,013
Minimum (cpm)	6,726
Maximum (cpm)	16,066
Mean (cpm)	10,445
Median (cpm)	10,291
Standard Deviation	1,535



#### Part III Status of Reclamation and Mine Waste

**Mine ID: 801** 

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Unknown Waste Pile onsite: No

NAMLRP Project Number: None

NAMLRP Mine features: None

The following information was obtained from field observations collected during the 2011 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

#### **Observed reclamation work and status:**

#### Adits:

None observed

#### **Waste Piles:**

None observed

#### Pits:

None observed

#### **Shafts:**

None observed

#### **Other Debris and Mine Features:**

None observed

**Mine ID: 802** 

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Unknown Waste Pile onsite: No

NAMLRP Project Number: None

**NAMLRP Mine features:** None

The following information was obtained from field observations collected during the 2011 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed	reclama	tion work	and	status.
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#### **Adits:**

None observed

#### **Waste Piles:**

None observed

#### Pits:

None observed

#### **Shafts:**

None observed

#### **Other Debris and Mine Features:**

None observed

#### Part IV Site Observations and Environs

Observed Residential Structures (number and human habitation status of structures at the following distances from mine):

0 to 200 feet: None observed

**200 feet to 0.25 mile:** None observed

Observed Public or Commercial Structures (schools, clinics, Chapter Houses, places of business and any other structures used by members of the community at the following distances from the mine site):

0 to 200 feet: None observed

**200 feet to 0.25 mile:** None observed

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed Water Sources (number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine site):

0 to 0.25 miles: None observed

**0.25 miles to 4 miles:** Residential pond approximately 2.5 mi SW of site

Sensitive Environments (all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation):

None observed

Known Site History (information from interviews with Chapter officials and residents and database review, includes: mine ownership, type of mining operation, period of operation, known amount of production, and any other information provided):

The Jim Hatattly mine claim consists of two separate mine sites (#'s 801, 802) with a total combined area of 22,072 m<sup>2</sup>. The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Jim Hatattly in 1952, C.A. Wheeler and A.H. Green from 1952 to 1954, and Howard L. Stanley in 1956. No additional historical ownership / lease information was identified in the EPA / AUM database.

#### Part V Response Action Summary

#### **Summary of Evaluation Factors:**

#### Accessibility:

Was the mine easily accessible to potential human activity? Yes

#### Radiological Measurements:

Were any gamma radiation measurements collected at the mine greater than two times the site-specific background levels?

Yes

#### Waste Piles:

Were any unreclaimed waste piles observed at the mine with gamma radiation measurements greater than two times the site-specific background levels? No

#### Structures:

Were any structures observed within 200 feet of the mine? No

#### Potential Drinking Water Sources:

Were any potential drinking water sources observed within 4 miles of the mine? No

#### Reclamation:

Was the mine reported to be previously reclaimed, or did the mine appear to be reclaimed?

Yes

### Part VI Photos



Photo 1: Mine Site #801; Cliff edge



Photo 2: Mine Site #801



Photo 3: Mine Site #801



Photo 4: Mine Site #801



Photo 5: Mine Site #802



Photo 6: Mine Site #802



**Photo 7:** Mine Site #802



Photo 8: Mine Site #802

### Part VII Contacts Reports and Information

Name:	Eugene Esplain
Title or official role (if any):	Navajo EPA Superfund Program
Telephone number:	(928) 871-7331
Address:	PO Box 2946, Window Rock, AZ 86515
Information provided:	Lead Regulatory Agency
Name:	
Title or official role (if any):	
Telephone number:	
Address:	
Information provided:	
Name:	
Title or official role (if any):	
Telephone number:	
Address:	
Information provided:	

Figure 1 - Gamma Radiation Measurements, Above Two Times Background
Jim Hatattly (801, 802)
Chilchinbito Chapter, Navajo Nation

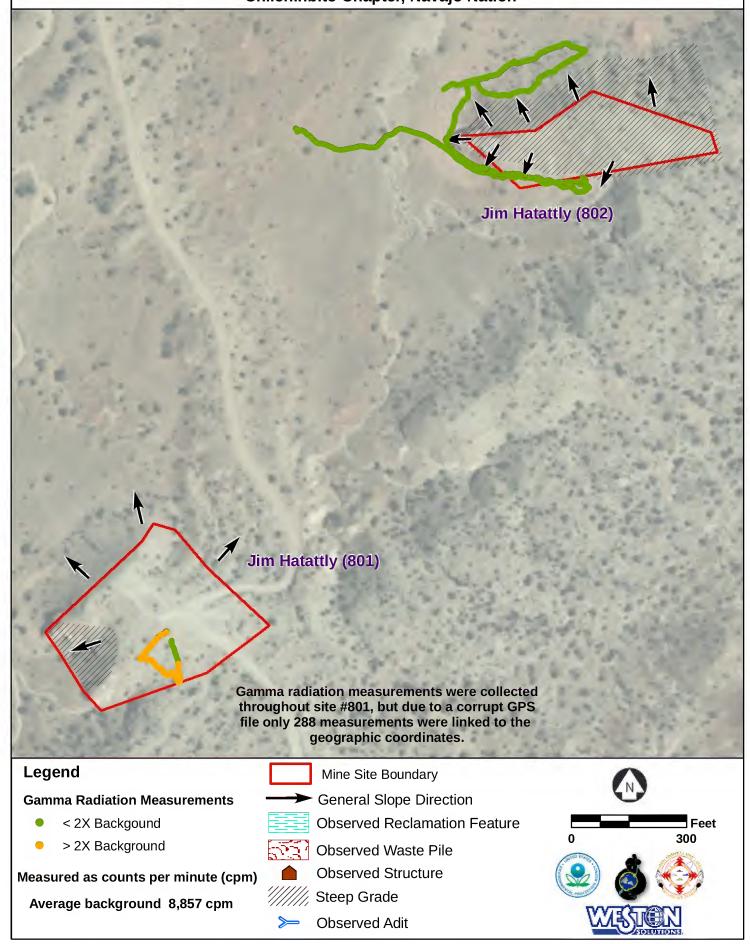


Figure 2 - Gamma Radiation Measurements Jim Hatattly (801, 802) Chilchinbito Chapter, Navajo Nation

